

PROCEDURE 3054

Software Support

DATE: 10/21/94

TITLE: On-line Program Review Procedure for CICS Applications

#### Purpose

The purpose of this document is to establish the procedures to be used to request migration of on-line CICS programs and mapsets to a production system. This includes procedures for requesting that ITD Software Support add or replace a CICS on-line program or mapset, or add or modify the definition of a CICS file. These procedures must be followed before the program or mapset will be moved to a production CICS system.

#### Definitions

CICSCOPY - A job that runs on Sunday morning to copy load modules from a staging load library to the CICS production load library. An outage of the CICS production system is required.

RQIS - An application on production CICS that is used to request services from the Data Operations Team of Information Technology Department.

#### Organization and Responsibilities

The programmer and/or analyst will be responsible for:

1. testing and reviewing the new or changed program(s) and/or mapset(s) thoroughly.
2. ensuring that the source code meets all applicable coding standards.
3. notifying the ITD IDMS support staff if a CICS/IDMS program is being modified and the IDMS database is being restructured to coincide with this modification. The IDMS staff should be notified at least one week before the change is scheduled to be implemented.
4. link-editing (cataloging) the program(s) and/or mapset(s) to a special quality assurance load library.
5. filing a request with ITD Software Support to migrate the program(s) and/or mapset(s) and any associated changes in file definitions to the production system.

6. maintaining a current version of the source code.

7. making necessary file and data changes.

ITD Software Support will be responsible for:

1. moving the load modules to the appropriate staging load library.
2. For maps, the map DSECT will also be moved to a staging library.

2. making any required changes to the CICS system tables.

3. backing up the old version of each program or mapset before replacing it with the new version.

4. scheduling the CICSCOPY.

5. implementing backoff procedures during prime time if the new version of the program(s) and/or mapset(s) are not working correctly in production. After prime time this will be the responsibility of the ITD Hoover Data Center Operations staff.

---

| Catalog and Review Procedure |  
|  
|

The programmer or analyst will test each program and/or mapset to ensure that it functions as designed, does not abend under any conditions, has proper error messages, and operates in an efficient manner.

When satisfied with the test results, the programmer or analyst will link-edit each program or mapset to the quality assurance test library SYS2.TPTSTLIB. This is usually done by using panel 5.13 on SPF, the "Quality Assurance Panel". See procedure 3079 for more information on how to use this panel. The batch job submitted from this SPF panel will also place a copy of the compiled source code in a library that can be viewed by Software Support staff.

After the program(s) and/or mapset(s) have been link-edited to the quality assurance test library, the programmer or analyst should do a "newcopy" of each program and/or mapset (see procedure 4037) and test the application again to ensure that the correct copy of the program has been cataloged.

The programmer or analyst should then use the RQIS application on production CICS to notify ITD Software Support of items that are ready to migrate with the next CICSCOPY. To use RQIS, the analyst would:

1. sign on to production CICS

2. type RQIS on a blank screen and press ENTER

OR

type REQS on a blank screen, press ENTER, then choose RQIS from the REQS menu.

3. select 'MIGRATE' from the RQIS menu

(SHORTCUT: type RQIS MIGRATE on a blank screen)

4. enter the transaction-id for the application and choose 'SELECT ITEMS TO MIGRATE' on the RQIS MIGRATE menu. This will list all the programs, mapsets, and files in the application.

5. mark (with an 'X') the program(s) and/or mapset(s) that are ready for migration. Also mark any associated file or transaction changes that should be migrated with the program(s).

6. use PF9 to view a summary of all items that have been marked for migration

OR

return to the RQIS MIGRATE menu and choose 'VIEW SUMMARY'

When the program(s), mapset(s), and/or file(s) have been marked for migration on RQIS, ITD Software Support will be notified, and will complete the migration process.

ITD Software Support will copy the load module to a staging library and delete the module in SYS2.TPTSTLIB. The resource will display as 'ACCEPTED' on the RQIS MIGRATE screen.

The migrated versions of programs and mapsets will be available on the production system after the CICSCOPY procedure runs. This will normally be on Sunday morning (see the "Schedules and Deadlines" section below).

---

| File Changes |  
| \_\_\_\_\_ |

In some cases the definition of a CICS on-line file needs to be changed in conjunction with a program change or a new file needs to be added to the CICS production system. The analyst should notify Software Support using the RQIS MIGRATE screen as described above (see "Catalog and Review Procedure").

The analyst is responsible for making any changes to the VSAM file or the data it contains, or for creating a new VSAM file. This is usually done with a batch job that is submitted by the analyst and scheduled to run after or immediately before the CICSCOPY procedure.

---

| Schedules and Deadlines |  
| \_\_\_\_\_ |

ITD Software Support must be notified of a migration request no later than 7:00 AM Thursday if the program is to go into production the following Sunday. If a State holiday falls on a Friday, the request must be filed by 7:00 Wednesday of that week.

CICSCOPY is normally scheduled for early Sunday morning of each week. If a production application needs to be changed and the change cannot wait until Sunday, please talk with ITD Software Support. An additional CICSCOPY may be scheduled, depending on the circumstances. All of the procedures described in the section "Catalog and Review Procedure" will still be followed for these special CICSCOPY runs.

---

Backout Procedures
--------------------

---

When the CICSCOPY procedure is run the new load modules are moved to the production library and the previous load modules are backed up.

If major problems are experienced with the new version of the program(s) and/or mapset(s) in production, notify ITD Software Support and procedures will be initiated to restore the old version of the load module(s). If a backoff is necessary at any time other than prime shift, notify the Data Center Operations shift supervisor at (515) 281-3650. (Prime shift is 7:00 AM to 5:00 PM, Monday through Friday).